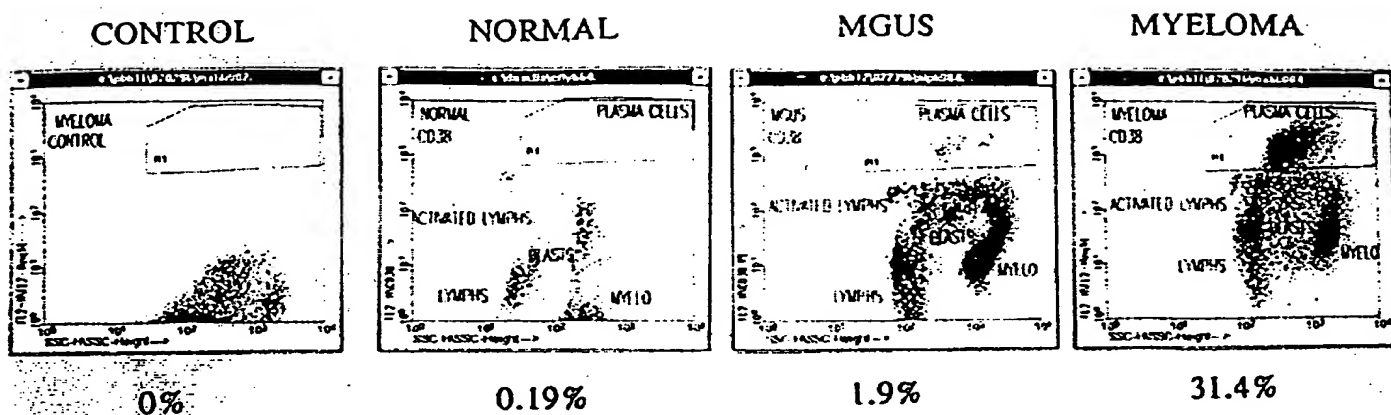
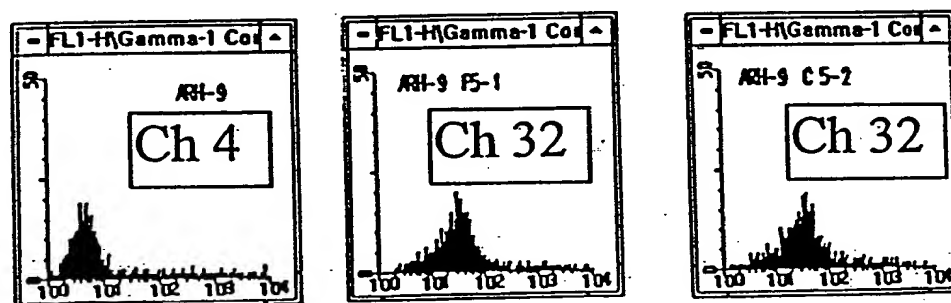


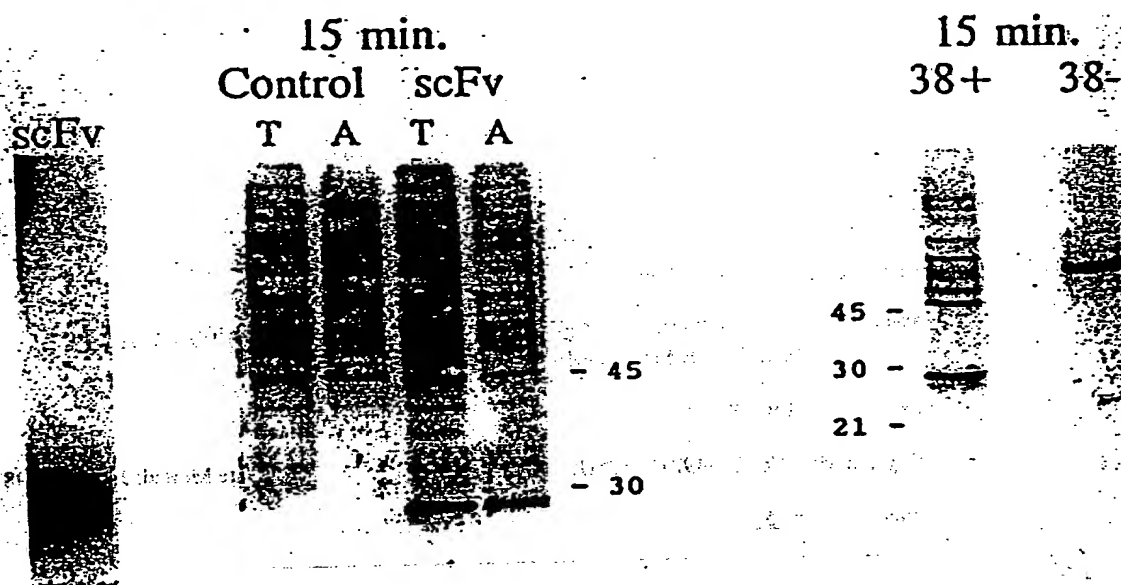
# FIG. 1



# FIG. 2

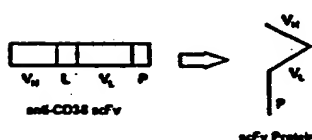


# FIG. 3



# FIG. 4

ANTI-CD38 scFv



# FIG. 5

ANTI-CD38 scFv



**FIG. 6**

S H  
aCa B CCCB CBG aAa B BC Cs Hgl PaAO s a C 8 CB C  
uve sBavvsDEBEvsdHeveMsMMAsvBVpNioaPvuviPpBuSVSB6SSTvsTv  
9ii rgciiasabaiaiaIaIspswloisiAcnAlsu9a0l5f9fiff4ttsiosi  
6JI Fl8JJJaeveJJJeIIcGpouFJLRlofiitI6I9aIa6cJia7yyeRFeJ  
III IXXXXXXXXXXXXXXXXXXXXXVIIIIXXXXXXXXXXXXXXXXXXXXXX  
/  
ggccagcgccgccaATGGCCAAGGTCCAGCTGCAGGAGTCAGGACCTAGCCTAGTGCAGCC  
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 60  
1 ccgggtcggcgggTACCGGTTCCAGGTTCGACGTCCTCAGTCTGGATCGGATCACGTCCG  
  
G P A G H G Q G P A A G V R T \* P S A A  
A Q P A M A K V Q L Q E S G P S L V Q P  
P S R P W P R S S C R S Q D L A \* C S P  
  
M BHlCaMB v p l s CM5V B sr  
W bshwjens i s w m jsOs rs  
o vgaNeIlg R M NA ee9p Ga  
I IIIIIII I I I I IIII  
/  
CTCACAGCGCCTGTCCATAACCTGCACAGTCTCTGGTTTCTCATTAATTAGTTATGGTG  
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 120  
61 GAGTGTGCGGGACAGGTATGGACGTGTGACAGACCAGAGTAATTAATCAATACCACA  
  
L T A P V H N L H S L W F L I N \* L W C  
S Q R L S I T C T V S G F S L I S Y G V  
H S A C P \* P A Q S L V S H \* L V M V Y  
  
U CT E C BS CC  
b BB Bjs B o sc B vj M B  
ap f sep s R mr s ie n P  
cm i rPR r I AF l JP l m  
I II I III I I II I II I I I  
/  
ACACTGGGTTCGCCAGTCTCCAGGAAGGGTCTGGAGTGGCTGGGAGTGATATGGACAGG  
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 180  
121

# FIG. 6 (con't)

TGTGACCCCAAGCGGTCAGAGGTCCTTTCCAGACCTCACCGACCTCACTATACCTCTCC

T L G S P V S R K G S G V A G S D M E R -  
H W V R Q S P G K G L E W L G V I W R G -  
T G F A S L Q E R V W S G W E \* Y G E V -

	N			
CB C	l B	H	B S	
vSTAV	aBs	HD i	ss f	
iosli	Ibp	pd n	at a	
RFewJ	IvG	he 4	Jy N	
IIIII	III	II I	II I	

181 TGGAAGCACAGACTACAATGCAGCTTTTCATGTCCAGACTGAGCATCACCAAGGACAACTC 240  
ACCTTCGTGTCTGATGTTACGTCGAAAGTACAGGTCTGACTCGTAGTGTTCTCTGTTGAG

W K H R L Q C S F H V Q T E H H Q G Q L -  
G S T D Y N A A F M S R L S I T K D N S -  
E A Q T T M Q L S C P D \* A S P R T T P -

C		CC C	T
v	MD	v a Av	S
i	sr	i c li	P
J	ea	R 8 uJ	R
I	II	I I II	I

241 CAAGAGCCAAGTTTTCTTTAAAATGAACAGTCTGCAAGCTGATGACACTGCCATATACTT 300  
GTTCTCGGTTCAAAAGAAATTTTACTTGTTCAGACGTTTCGACTACTGTGACGGTATATGAA

Q E P S F L \* N E Q S A S \* \* H C H I L -  
K S Q V F F K M N S L Q A D D T A I Y F -  
R A K F S L K \* T V C K L M T L P Y T S -

	S H S
B C	a CBaN A NB Pa
S V	B uBvsels vHlsDsu
c i	f 9siaIat apaash9
G J	i 6rJJIIy IhIJJaA6
I I	I IIIIIVI IIVIIII

301 CTGTGCCAAAACCTTGATTACGACGGGCTATGCTATGGACTACTGGGGCCAAAGGGACCAC 36  
GACACGGTTTTGGAACATAATGCTGCCCGATACGATACCTGATGACCCCGGTTCCCTGGTG

L C Q N L D Y D G L C Y G L L G P R D H -  
C A K T L I T T G Y A M D Y W G Q G T T -  
V P K P \* L R R A M L W T T G A K G P R -

BMT	B				S
Bsas B	BBs			C	a
step s	ssuDM	M A	MM AE	M v	AEu D

eBI4 m	mm3dn	n c	nw	cc	w i	c	cc3 p
RII5 F	AB6el	l i	lo	ii	o J	i	iiA n
IIII I	IIIII	I I	II	II	I I	I	III I

GTTCACCGTCTCCTCAGGTGGAGGCGGTTTCAGGCGGAGGTGGCTCTGGCGGTGGCGGATC

# FIG. 6 (con't)

361 -----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 420  
CCAGTGGCAGAGGAGTCCACCTCCGCCAAGTCCGCCTCCACCGAGACCGCCACCGCCTAG

G H R L L R W R R F R R R W L W R W R I -  
V T V S S G G G G S G G G G S G G G G S -  
S P S P Q V E A V Q A E V A L A V A D R -

		B						T
		Bs						MTt
		sp						
H		CBi1	B	B		B		BHHash
i	A T	AvaH2DFSS		Bs		M s B	H	siiep1
n	l a	linK8doaa		cm		n m f	p	annI41
4	w q	uJIA6ekcX		ca		l A a	h	X4fI51
I	I I	IIIIIIIIII		II		I I I	I	IIIIII

GGACATCGAGCTCACTCAGTCTCCATCCTCTTTCTGTATCTCTAGGAGACAGAGTCAC  
421 -----+-----+-----+-----+-----+-----+-----+-----+-----+ 480  
CCTGTAGCTCGAGTGAGTCAGAGGTAGGAGGAAAAGACATAGAGATCCTCTGTCTCAGTG

G H R A H S V S I L L F C I S R R Q S H -  
D I E L T Q S P S S F S V S L G D R V T -  
T S S S L S L H P P F L Y L \* E T E S P -

				E		E
	C			CcS		C S
P	V	M		VOC		o c
l	i	n		iRr		R r
e	R	l		JIF		I F
I	I	I		III		I I

CATTACTTGCAAGGCAAGTGagGACATATATAATCGGTTAGCCTGGTATCAGCAGAAACC  
481 -----+-----+-----+-----+-----+-----+-----+-----+-----+ 540  
GTAATGAACGTTCCGTTCACTcCTGTATATATTAGCCAATCGGACCATAGTCGTCTTTGG

H Y L Q G K \* G H I \* S V S L V S A E T -  
I T C K A S E D I Y N R L A W Y Q Q K P -  
L L A R Q V R T Y I I G \* P G I S R N Q -

	A B C			C		N
	VBSS	V	M	V	B	B l
	rfat	i	s	i	s	f s a
	IaJy	J	e	R	r	i r I
	IIII	I	I	I	I	I I V

AGGAAATGCTCCTAGGCTCTTAATATCTGGTGCAACCAGTTTGGAACCTGGGGTTCCCTTC  
541 -----+-----+-----+-----+-----+-----+-----+-----+-----+ 600  
TCCTTTACGAGGATCCGAGAATTATAGACCAAGTTGGTCAAACCTTTGACCCCAAGGAAG

R K C S \* A L N I W C N Q F G N W G S F -  
G N A P R L L I S G A T S L E T G V P S -  
E M L L G S \* Y L V Q P V W K L G F L Q -

		S			E	
H	T	Ba T		c	M	
it	s	suds	A	Do	Bb B	
nf	p	t3pp	l	d5	bo s	

fi R YAnR w e7 sI r

1. The first step is to identify the problem or goal. This involves understanding the current situation, identifying the key issues, and determining the desired outcome.

K I Q W Q W I W K G L H S Q H Y Q S S D -  
R F S W G S G S G K D Y T L S I T S L Q T -  
D S V A V D L E R I T L S A L P V F R L -

M	E	H		U	M		A
b	c	i	c	RSb	a	BM	v
o	o	n	j	sca	e	sn	a
I	5	c	e	aaC	I	ll	I
I	7	I	I	III	I	II	I

661 TGAAGATGTTGCTACTTATTACTGTCAACAGTATTGGAGTACTCCTACGTTCCGGTGGAGG 720  
-----+-----+-----+-----+-----+-----+  
ACTTCTACAACGATGAATAATGACAGTTGTCATAACCTCATGAGGATGCAAGCCACCTCC

\* R C C Y L L L S T V L E Y S Y V R W R -  
E D V A T Y Y C Q Q Y W S T P T F G G G -  
K M L L L I T V N S I G V L L R S V E G -

S					H
Na	C	B	B	B C BB Ga	
lu	Av	s	s	AsEvAssEdenTT	
a9	li	m	c	coalcioaiIoaa	
I6	uJ	F	G	iFeJiIEFgIIItuu	
VI	II	I	I	IIIIIIIIIIIIIIII	

721 GACCAAGCTGGAAATCAAACGGGCGGCCGC 750  
-----+-----+-----+  
CTGGTTCGACCTTTAGTTTGCCCGCGGGCG

D Q A G N Q T G G R  
T K L E I K R A A  
P S W K S N G R P